

Recovery Plan Action Status

Plan Name: Smooth Coneflower

Plan Status: Final

Plan Date: 18-Apr-95

Lead Agency: USFWS

Lead Office: Raleigh Ecological Services Field Office

(919)

856-4520)

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Smooth coneflower (Echinacea laevigata)	1	1	Implement protective management for extant populations	Ongoing Current	FY 1995 - FY 1999		U.S. Fish and Wildlife Service, Endangered Species Division, U.S. Forest Service, U.S. Army Corps of Engineers, State Conservation Agencies, USFWS Regional Office 5, USFWS Regional Office 4	Management: General	Contract	**All tasks Responsible Parties: SCA - State plant conservation agencies of participating States. In North Carolina, these are the Plant Conservation Program (North Carolina Department of Agriculture) and the Natural Heritage Program (North Carolina Department of Environment, Health and Natural Resources); in Virginia, the Virginia Department of conservation and Recreation, Division of Natural Heritage; and in Georgia, the Freshwater Wetlands, and Heritage Inventory (Georgia Department of Natural Resources); USFS - Sumter and Chattahoochee National Forests and Savannah River Forest Station; COE - Falls Lake

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Smooth coneflower (Echinacea laevigata)	3	10	Annually assess success of recovery efforts for the species	Ongoing Not Current	FY 1995 - FY 1999		U.S. Fish and Wildlife Service, Endangered Species Division, U.S. Forest Service, U.S. Army Corps of Engineers, State Conservation Agencies, USFWS Regional Office 5, USFWS Regional Office 4	Other	Internal Technical Assistance	
Smooth coneflower (Echinacea laevigata)	1	2	Protect viable populations through a range of protection tools (management agreements, acquisition, registry, cooperative agreements, etc)	Ongoing Current	FY 1995 - FY 1999		U.S. Fish and Wildlife Service, Endangered Species Division, U.S. Forest Service, State Conservation Agencies, USFWS Regional Office 5, USFWS Regional Office 4	Management: General	Contract, Internal Technical Assistance, Species Expert, Volunteer	NC Botanical Garden
Smooth coneflower (Echinacea laevigata)	1	3	Maintain cultivated sources for the species and provide for long-term maintenance of selected populations in cultivation	Ongoing Current	FY 1995 - FY 1999		U.S. Fish and Wildlife Service, Endangered Species Division, U.S. Forest Service, Center for Plant Conservation, State Conservation Agencies, USFWS Regional Office 5, USFWS Regional Office 4	Work type not yet selected	Contract, Species Expert	NC Botanical Garden has smooth coneflower plants in cultivation and seeds in cold storage.
Smooth coneflower (Echinacea laevigata)	1	4	Enforce laws protecting the species and its habitat	Ongoing Current	FY 1995 - FY 1999		U.S. Fish and Wildlife Service, Endangered Species Division, U.S. Forest Service, U.S. Army Corps of Engineers, State Conservation Agencies, USFWS Regional Office 5, USFWS Regional Office 4	Other: Law Enforcement	Internal Field Assistance	

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Smooth coneflower (Echinacea laevigata)	2	5	Survey suitable habitat for additional populations and potential reintroduction sites; reestablish populations within the species' historic range.	Ongoing Current	FY 1995 - FY 1999		U.S. Fish and Wildlife Service, Endangered Species Division, U.S. Forest Service, State Conservation Agencies, USFWS Regional Office 5, USFWS Regional Office 4	Research: Population Surveys	Contract, Graduate Student, Internal Field Assistance, Species Expert	
Smooth coneflower (Echinacea laevigata)	2	6	Monitor existing populations	Ongoing Current	FY 1995 - FY 1999		U.S. Fish and Wildlife Service, Endangered Species Division, U.S. Forest Service, U.S. Army Corps of Engineers, State Conservation Agencies, USFWS Regional Office 5, USFWS Regional Office 4	Research: Population Surveys	Contract, Graduate Student, Internal Field Assistance, Species Expert	
Smooth coneflower (Echinacea laevigata)	2	7	Conduct research on the biology of the species and on suitable management tools for maintaining the natural ecosystem in which it occurs	Ongoing Current	FY 1995 - FY 1999		U.S. Fish and Wildlife Service, Endangered Species Division, U.S. Forest Service, State Conservation Agencies, USFWS Regional Office 5, USFWS Regional Office 4	Research: General	Contract, Graduate Student, Internal Field Assistance, Species Expert	Laura Gadd (NCSU) worked on pollination ecology. Melinda Peters (NCSU) worked on genetics of the species. Andy Walker (NCSU) studied the seed bank.
Smooth coneflower (Echinacea laevigata)	3	8	Prepare and distribute news releases and informational brochures	Ongoing Current	FY 1995 - FY 1999		U.S. Fish and Wildlife Service, Endangered Species Division, U.S. Forest Service, U.S. Army Corps of Engineers, State Conservation Agencies, USFWS Regional Office 5, USFWS Regional Office 4	Other: Information and Education	Contract, Internal Technical Assistance, Species Expert	

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Smooth coneflower (Echinacea laevigata)	3	9	Prepare articles for popular and scientific publications	Ongoing Current	FY 1995 - FY 1999		U.S. Fish and Wildlife Service, Endangered Species Division, U.S. Forest Service, State Conservation Agencies, USFWS Regional Office 5, USFWS Regional Office 4	Other: Information and Education	Contract, Graduate Student, Internal Technical Assistance, Species Expert	